

SUPPLEMENT TO AN ANNOTATED CHECKLIST OF MISSOURI LEAF BEETLES (COLEOPTERA: CHRYSOMELIDAE): NEW STATE RECORDS AND HOST PLANT ASSOCIATIONS^{1,2}

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ABSTRACT: Fifteen species of leaf beetles (Coleoptera: Chrysomelidae) are reported from Missouri for the first time. Significant host data are reported for these and other species.

Since the completion of our earlier list (Riley and Enns 1979) three additional collecting seasons have passed. Collecting efforts during this time have been oriented toward specialized plant communities in the more outlying areas of the state, particularly glade and prairie habitats of southwestern Missouri. The additional field work resulted in the discovery of 15 leaf beetle species previously unknown from Missouri. Also reported here is one species which was unintentionally omitted from our earlier list. These additions bring the total number of chrysomelid species and subspecies known from Missouri to 351. Host plant information which is new or thought otherwise useful to subsequent investigators is also reported. The specimens discussed in this paper are deposited in the collection of the first author and the Wilbur R. Enns Entomology Museum, University of Missouri-Columbia.

Cryptocephalinae

Cryptocephalus calidus Suffrian. NEW STATE RECORD. Missouri records: 11 specimens (males) from Boone, Crawford, Livingston, Pettis and Phelps Counties, taken in June and July. Due to the difficulty in recognizing this species, as mentioned in our earlier paper, we are reporting here only records from male specimens. This species is very similar in appearance to, and often collected with, *Cryptocephalus venustus* (Fab.). Dr. Richard E. White (USNM) has confirmed this determination.

Cryptocephalus tinctus LeConte. NEW STATE RECORD. Missouri records: 13 specimens from Boone, Crawford, and Stone Counties,

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taken during August and September. The 12 Boone and Crawford County specimens were taken at black lights.

Cryptocephalus trivittatus Olivier. NEW STATE RECORD. Missouri records: 2 specimens from Stoddard County, taken during June by sweeping.

Chlamisinae

Neochlamisus tuberculatus (Klug). NEW STATE RECORD. Missouri records: 3 specimens from Barry County, taken during early June. These specimens were collected by sweeping an unidentified *Vaccinium* species growing in a powerline clearcut at Roaring River State Park.

Eumolpinae

Colaspis suggona Blake. Adults of this species are very common on prairie habitat of southwestern Missouri during early June. Large numbers have been encountered defoliating *Tephrosia virginiana* and *Ceanothus ovatus*.

Paria sexnotata (Say). In our earlier paper, we reported having seen only a single specimen of this species from Missouri. It has since been collected by beating *Juniperus virginiana*, and is especially common in May on junipers growing in glade communities (Benton County, near Warsaw). The series of specimens available show great variation in the pronotal punctation, ranging from deeply impressed, oval punctures to semi-strigose or strigose punctures which are often confluent at sides. This variability suggests that *Paria juniperi* Blatchley may not be distinct from *P. sexnotata*. *Paria juniperi* was described as having the pronotal punctures very coarse, confluent and strigose. It is also known to occur on *Juniperus*.

Chrysomelinae

Calligrapha (Acalligrapha) praecelsis (Rogers). NEW STATE RECORD. Missouri records: Three specimens were discovered in the Wilbur R. Enns Entomology Museum, UMC, from St. Louis, Missouri (ex G.W. Bock collection). One specimen is dated 5-7-94.

Calligrapha (Calligrapha) philadelphica (Linnaeus). NEW STATE RECORD. Missouri records: 24 specimens from Taberville Prairie, St. Clair County. These specimens were collected during early May from *Cornus drummondii*.

Calligrapha (Calligrapha) rhoda Knab. Missouri records: 10 specimens of this species were collected at Roaring River State Park (Barry Co.) during early May from *Corylus americana*. Blatchley (1910) gave the distribution for *Calligrapha rhoda* var. *walshiana* Blatchley as Indiana and Missouri. Wilcox (1972) also cited this record. These literature records were inadvertently omitted from our earlier list.

Chrysomela lineatopunctata (Forster). NEW STATE RECORD. Missouri records: 100+ specimens from Morgan and St. Clair Counties, taken during May and June. All specimens, except one, are from Taberville Prairie (St. Clair Co.) where they were found breeding on prairie willow, *Salix humilus*, during early May.

Galerucinae

Luperosoma parallelum (Horn). This species has been found in large numbers on two separate occasions near Warsaw, Missouri (Benton Co.) during July. The beetles were feeding on *Psoralea tenuiflora*.

Scelolyperus liriophilus Wilcox. This species is more common in Missouri than indicated on our earlier list. Records exist (series including males) for Barry, Benton, Marion and Taney Counties. The beetles have been commonly taken in the Ozark region of the state by sweeping forest understory vegetation. They have been repeatedly found on the flowers and leaves of smoke tree, *Cotinus obovatus*, and blatternut, *Staphylea trifolia*, during early May.

Alticinae

Kuschelina fimbriata (Forster). NEW STATE RECORD. Missouri records: One specimen from St. Clair County, taken during May. This specimen was collected while sweeping vegetation of a sandstone glade habitat near Collins, Missouri (E.G. Riley colln.).

Disonycha admirabilis Blatchley. In our earlier paper we reported on 3 specimens which carried labels reading "on *Schrankia*". Recent collecting has confirmed the beetles' association with this plant. The adults of *D. admirabilis* are often common in May on *Schrankia uncinata*, especially where it grows on prairie habitat of southwestern Missouri. On one occasion larvae were observed in association with adults on this plant.

Chaetocnema alutacea Crotch. NEW STATE RECORD. Missouri

records: 100+ specimens from Vernon County, taken during June. These beetles were taken on two separate occasions by sweeping prairie habitat near Gay Feather Prairie, 4 miles west of Montevallo, Missouri.

Chaetocnema cribrifrons LeConte. NEW STATE RECORD. Missouri records: 60 specimens from Barton, Benton, Callaway, Lawrence, Pettis, St. Louis, Taney and Vernon Counties, taken during May and June, primarily by sweeping prairie habitat.

Chaetocnema subviridis LeConte. NEW STATE RECORD. Missouri records: 76 specimens from Holt County, taken during June. These specimens were collected on two occasions by sweeping grasses growing in a cemetery, 1.2 miles south of Mound City, Missouri. This area is comprised of loess mound habitat.

Systema corni Schaeffer. NEW STATE RECORD. Missouri records: 70 specimens from Crawford County, taken during August. These specimens represent a single series which was taken by sweeping dogwood, *Cornus florida*, over a two-day period. The beetles were not abundant. Dr. Eric H. Smith (Field Mus. Nat. Hist., Chicago) has confirmed this determination.

Glyptina brunnea Horn. This species has been found feeding on the terminal growth of *Euphorbia maculata*.

Glyptina cyanipennis Crotch. We recorded this species as feeding on *Euphorbia dentata* in our earlier paper. Since then it has also been discovered feeding on *Euphorbia heterophylla*.

Glyptina ferruginea Blatchley. A series of 100+ specimens was collected in June from *Euphorbia obtusata* in Randolph County. Damage was evident on the plants and the beetles were observed feeding. This is the fourth *Glyptina* species known to feed on *Euphorbia*.

Aphthona texana Crotch. NEW STATE RECORD. Missouri records: 6 specimens from Holt, Lawrence, Pettis and Texas Counties, taken from May to July. One specimen is labeled "on red clover".

Hispinae

Anisostena kansana Schaeffer. NEW STATE RECORD. Missouri records: 96 specimens from Bates, Dade, Pettis and Vernon Counties,

taken during June and July. These beetles feed on the prairie grass, *Tripsacum dactyloides*. During July, adults, larvae and pupae were taken from blotch mines in the leaves of this grass.

Anisostena nigrita (Olivier). NEW STATE RECORD. Missouri records: 13 specimens from Barry, Stone and Taney Counties, taken during May and June by sweeping grasses of glade communities.

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